

REMARKS

Claims 16-28 are currently pending in the application. Claims 16, 21, 25-26, and 28 have been amended. Applicant respectfully submits that no new matter has been added. Applicant respectfully requests reconsideration of the application in view of the foregoing amendments and the following remarks.

Claims 16-28 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,131,013 to Bergstrom et al. (Bergstrom). Bergstrom discloses a communication system having a receiver that is capable of performing targeted interference suppression. Applicant respectfully submits that Bergstrom fails to teach, suggest, or anticipate at least one of the distinguishing features of independent claim 16, namely, an interference classifier adapted to classify a type of interference affecting communications quality by evaluating time-domain behavior of at least one of an automatic gain control (AGC) signal, a transmission power control (TPC) command signal, an interference estimate signal, and a signal representing a strength of a wireless communications signal.

Bergstrom is directed to a method and apparatus for performing targeted interference suppression. In Bergstrom, a receiver that is capable of performing targeted interference suppression utilizes an interference classifier to analyze a signal received from a channel and to identify and classify interference components within the signal. An interference suppressor suppresses the interference components in the signal based upon an interference type. The interference suppressor may include a plurality of interference-suppression modules for suppressing certain interference types. A hybrid interference mitigation system may also be used. The hybrid interference mitigation system combines targeted interference suppression, frequency-hopping adaptation, and processing gain adaptation.

In contrast to claim 16, there is no teaching or suggestion by Bergstrom of an automatic gain control (AGC) signal, a transmission power control (TPC) command signal, an interference estimate signal, and a signal representing a strength of a wireless communications signal. Bergstrom only discloses a signal representing a strength of a wireless communications signal. In addition, the signal representing the strength of the wireless communications signal as disclosed in Bergstrom is based upon a frequency domain representation of the wireless

communications signal and not a time-domain behavior of at least one of the automatic gain control (AGC) signal, the transmission power control (TPC) command signal, the interference estimate signal, and the signal representing a strength of a wireless communications signal as claimed. Applicant respectfully submits that independent claim 16 distinguishes over Bergstrom and is in condition for allowance. Withdrawal of the rejection of independent claim 16 as anticipated by Bergstrom is respectfully requested.

Dependent claims 17-20 depend from and further restrict independent claim 16 in a patentable sense. Applicant respectfully submits that, for at least the reasons set forth above with respect to the rejection of independent claim 16, dependent claims 17-20 distinguish over Bergstrom and are in condition for allowance. Withdrawal of the rejection of dependent claims 17-20 is respectfully requested.

Independent claim 21 relates to a method within a mobile communications terminal. Applicant respectfully submits that Bergstrom fails to teach, suggest, or anticipate at least one of the distinguishing features of independent claim 21, namely, classifying a type of interference affecting communications quality by evaluating a time-domain behavior of at least one of an AGC signal, a TPC command signal, an interference estimate signal, and a signal representing a strength of a wireless communications signal.

In contrast to claim 21, there is no teaching or suggestion by Bergstrom of an automatic gain control (AGC) signal, a transmission power control (TPC) command signal, an interference estimate signal, and a signal representing a strength of a wireless communications signal. Bergstrom only discloses a signal representing a strength of a wireless communications signal. In addition, the signal representing the strength of the wireless communications signal as disclosed in Bergstrom is based upon a frequency domain representation of the wireless communications signal and not a time-domain behavior of at least one of the automatic gain control (AGC) signal, the transmission power control (TPC) command signal, the interference estimate signal, and the signal representing a strength of a wireless communications signal as claimed. Applicant respectfully submits that independent claim 21 distinguishes over Bergstrom and is in condition for allowance. Withdrawal of the rejection of independent claim 21 as anticipated by Bergstrom is respectfully requested.

Dependent claims 22-24 depend from and further restrict independent claim 21 in a patentable sense. Applicant respectfully submits that, for at least the reasons set forth above with respect to the rejection of independent claim 21, dependent claims 22-24 distinguish over Bergstrom and are in condition for allowance. Withdrawal of the rejection of dependent claims 22-24 is respectfully requested.

Independent claim 25 relates to a mobile communications terminal. Applicant respectfully submits that Bergstrom fails to teach, suggest, or anticipate at least one of the distinguishing features of independent claim 25, namely, an interference classifier adapted to receive at least one signal and to classify a type of interference affecting communications quality by evaluating time-domain behavior of at least one of the at least one signal.

Bergstrom discloses an electronic circuit for receiving a wireless communications signal. The electronic circuit includes signal processing units (interference suppressor) adapted to provide at least one signal to a demodulation/decoding unit. The electronic circuit further includes an interference classifier. In Bergstrom, a demodulation/decoding unit receives signals from an interference suppressor but fails to disclose transmitting a signal to be received by the an interference classifier as claimed. In addition, Bergstrom fails to disclose classifying a type of interference performed in the interference classifier by evaluating time-domain behavior of at least one of the at least one signal. Applicant respectfully submits that independent claim 25 distinguishes over Bergstrom and is on condition for allowance. Withdrawal of the rejection of independent claim 25 as anticipated by Bergstrom is respectfully requested.

Dependent claim 26 depends from and further restricts independent claim 25 in a patentable sense. Applicant respectfully submits that, for at least the reasons set forth above with respect to the rejection of independent claim 25, dependent claim 26 distinguishes over Bergstrom and is in condition for allowance. Withdrawal of the rejection of dependent claim 26 is respectfully requested.

Independent claim 27 relates to a method within a mobile communications terminal. Applicant respectfully submits that Bergstrom fails to teach, suggest, or anticipate at least one of the distinguishing features of independent claim 27, namely, classifying a type of interference affecting communications quality by evaluating a time-domain behavior of at least one of at least

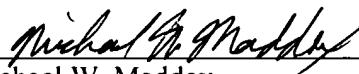
one signal. In contrast to independent claim 27, in Bergstrom, a demodulation/decoding unit receives signals from an interference suppressor but fails to disclose transmitting a signal to be received by an interference classifier. Therefore, Bergstrom fails to disclose classifying a type of interference by evaluating time-domain behavior of at least one of the at least one signal. Applicant respectfully submits that independent claim 27 distinguishes over Bergstrom and is in condition for allowance. Withdrawal of the rejection of independent claim 27 as anticipated by Bergstrom is respectfully requested.

Dependent claim 28 depends from and further restricts independent claim 27 in a patentable sense. Applicant respectfully submits that, for at least the reasons set forth above with respect to the rejection of independent claim 27, dependent claim 28 distinguishes over Bergstrom and is in condition for allowance. Withdrawal of the rejection of dependent claim 28 is respectfully requested.

In view of the above amendment, applicant believes the pending application is in condition for allowance.

Dated: June 9, 2005

Respectfully submitted,

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